

Title (en)

NITROGEN-OXIDE GAS SENSOR WITH LONG SIGNAL STABILITY

Title (de)

STICKOXIDSENSOR MIT LANG ANHALTENDER SIGNALSTABILITÄT

Title (fr)

CAPTEUR DE GAZ OXYDE-AZOTE À LONGUE STABILITÉ DE SIGNAL

Publication

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Application

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Abstract (en)

The present invention provides a nitrogen-oxide gas sensor that is able to measure nitride oxide and nitrogen dioxide at the same time and ensure measurement accuracy and long stability. For this purpose, the nitrogen-oxide gas sensor includes: an oxide ion conductive solid electrolyte; a primary film that contacts the solid electrolyte and is made of a p-type semiconductor metal oxide; a secondary film that contacts the solid electrolyte and is made of a p-type semiconductor metal oxide; an n-type semiconductor metal oxide that is included in at least one of the primary and secondary films; a power source that applies electric power to the primary and secondary films by electrically connecting a primary node to the primary film and a secondary node to the secondary film; and a measurement unit that measures the electric potential difference between the primary and secondary nodes.

IPC 8 full level

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